

Claims

- [c1] A vehicle overhead module powerstrip assembly comprising:
- at least one overhead attachment strip configured to couple to a vehicle overhead structure;
 - at least one electrically conductive strip coupled to said at least one attachment strip; and
 - at least one modular connector comprising a plurality of electrical contacts having a plurality of attachment positions along said at least one electrically conductive strip, said at least one modular connector configured to couple an overhead electronic module to said at least one electrically conductive strip.
- [c2] An assembly as in claim 1 wherein said at least one attachment strip is in the form of a single extruded component.
- [c3] An assembly as in claim 1 wherein said at least one attachment strip comprises at least one flange that covers at least a portion of said at least one electrically conductive strip.
- [c4] An assembly as in claim 3 wherein said at least one

flange is flexible.

- [c5] An assembly as in claim 3 wherein said at least one flange comprises at least one of polypropylene and saniprene.
- [c6] An assembly as in claim 3 wherein said at least one flange applies pressure on said at least one modular connector to maintain electrical contact between said at least one electrically conductive strip and said at least one modular connector.
- [c7] An assembly as in claim 1 wherein said at least one electrically conductive strip comprise:
a positively charged electrically conductive strip; and
a negatively charged electrically conductive strip.
- [c8] An assembly as in claim 1 wherein said at least one electrically conductive strip extend in a fore and aft direction along a longitudinal centerline of a vehicle.
- [c9] An assembly as in claim 1 wherein said plurality of electrical contacts comprises a spring loaded ground contact that is in contact with a ground strip of said at least one electrically conductive strip.
- [c10] An assembly as in claim 1 wherein said at least one overhead attachment strip comprises a plurality of chan-

nels, at least a portion of said plurality of electrical contacts extend into said plurality of channels and are in contact with said at least one electrically conductive strip therein.

- [c11] An assembly as in claim 1 wherein said plurality of electrical contacts comprise:
 - a first power contact; and
 - a second power contact having a physical spreading resistance relative to said first power contact to maintain electrical contact with said at least one electrically conductive strip.
- [c12] An assembly as in claim 1 wherein said plurality of electrical contacts are slidable along said at least one electrically conductive strip.
- [c13] An assembly as in claim 1 wherein said at least one overhead attachment strip further comprises a main center member, said at least one electrically conductive strip coupled to and extending along said main center member.
- [c14] An assembly as in claim 1 wherein said at least one modular connector comprises at least one insulator separating said plurality of electrical contacts.
- [c15] An assembly as in claim 14 wherein said at least one in-

ulator comprises a plurality of module attachment holes.

[c16] A vehicle overhead console comprising:
at least one track;
at least one overhead electronic module transitional along said at least one track; and
at least one vehicle overhead module powerstrip assembly comprising;
at least one overhead attachment strip configured to couple to a vehicle overhead structure;
at least one electrically conductive strip coupled to said at least one attachment strip; and
at least one modular connector comprising a plurality of electrical contacts having a plurality of attachment positions along said at least one electrically conductive strip, said at least one modular connector configured to couple said at least one overhead electronic module to said at least one electrically conductive strip.

[c17] A console as in claim 16 wherein said at least one overhead attachment strip is coupled to said at least one track via at least one fastening device.

[c18] A console as in claim 16 wherein said at least one electronic module has an infinite number of module positions relative to said track and receives power from said

at least one electrically conductive strip in each of said module positions.

[c19] A method of altering the arrangement of a plurality of overhead console modules of a vehicle comprising:
uncoupling at least one electrically conductive modular connector corresponding with the plurality of overhead console modules from at least one overhead attachment strip;
determining a position of the at least one electrically conductive modular connector;
aligning the at least one electrically conductive modular connector with said at least one overhead attachment strip;
inserting at least one electrical contact of said at least one electrically conductive modular connector into a plurality of channels of said at least one overhead attachment strip;
contacting said at least one electrical contact with at least one electrically conductive strip of said at least one overhead attachment strip; and
maintaining contact between said at least one electrical contact and said at least one electrically conductive strip.

[c20] A method as in claim 19 further comprising hiding at least a portion of said at least one electrically conductive strip.

